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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/917,236	07/30/2001	Jean Francois Michelet	P66892US0	8953	
-	7590 05/05/2004			EXAMINER	
JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W.			YU, GINA C		
			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20004			1617		

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/917,236	MICHELET ET AL.					
Office Action Summary	Examiner	Art Unit					
	Gina C. Yu	1617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 17 February 2004.							
·	☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	·.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
dee the attached detailed Office action for a list of	or the certified copies not receive	su.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 17, 2004 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 3 and 18 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claimed method of stopping the loss of hair lacks support from the applicant's specification or prior art. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with this claim without undue experimentation.

Factors to be considered in determining whether any necessary experimentation is "undue" include, but are not limited to: the breath of the claims; the nature of the

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invention; the state of the prior art, the level of one of ordinary skill; the level of predictability in the art; the amount of direction provided by the inventor; the existence of working examples, and the quantity of experimentation needed to make or use the invention based on the content of the disclosure. See <u>In re Wands</u>, 858 F.2d 731, 737, 8 U.S.P.Q. 2d 1400, 1404 (Fed. Cir. 1988).

In this case, applicants' disclosure fails to enable the claimed prostaglandin EP-3 receptor antagonist or the method of using prostaglandin EP-3 receptor antagonist.

While applicants disclose using prostaglandin EP-3 receptor antagonists in specification p. 4, line 7, applicant fails to set forth the criteria that defines "EP-3 antagonist", or how one of skill in the art would ascertain these compounds without undue experimentation. Applicants fail to provide sufficient working examples. It is noted that these examples are neither exhaustive, nor define the class of compounds required. The pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. The instant claims read on all EP-3 receptor antagonist, necessitating an exhaustive search for the embodiments suitable to practice the claimed invention. Applicants fail to provide information sufficient to practice the claimed invention absent undue experimentation.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

⁽e) the invention was described in-

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(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

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1. Claims 1, 2, 4, 5, 10-12, 15, and 17 are rejected under 35 U.S.C. 102(a) and (e) as being anticipated by Cameron et al. (US 6426359 B1) ("Cameron").

Cameron teaches pharmaceutical compositions comprising prostaglandin EP2 receptor agonist. See abstract; col.5, line 20- col.25, line 21. The reference further teaches that topical composition can be in the form of aqueous solutions partially aqueous solutions containing 0.1-5% of the active. See col. 53, lines 5-8; instant claim 2. The reference also discloses a suspension formulation comprising color (dyestuff in Claim 1) and benzoic acid solution (organic solvent in Claim 4). A tablet formulation is also disclosed, meeting the "solid" limitation in Claims 10 and 11. See Formulation 2. The reference also teaches using water, ethanol, propylene glycol or glycerin. See col. 52, lines 40-60.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 6-8, 13-16, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carmen as applied to claims 1, 2, 4, 5, 10-12, and 17 under § 102 (a) as above, and further in view of Deckers et al. (US 6372234 B1) ("Deckers").

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While Carmen fails to teach the topical application of the composition to attenuate or reduce hair loss, examiner views it obvious that the prior art method of the topical application of the same composition would result in the same attenuating or reduction of loss of hair on the treated skin. See instant claims 13 and 15.

While Carmen teaches to employ methods of preparing pharmaceutical composition well known in the art, the reference fails to teach the limitation of the solvents and lipid phase of instant claims 6-8.

Deckers teaches that polyhydroxy alcohols are used in topical formulations generally in 0.1-99 % w/v, preferably in 1-40 % w/v; and oils are used in preferably in 2-60 % w/v. See col. 15, lines 45 – 12; col. 12, lines 25 – 34.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the invention of Carmen by formulating a topical composition by adding polyhydroxy alcohols and lipid phase as suggested by Deckers because 1) Carmen teaches that topical preparation for prostaglandin EP-2 receptor agonists can be prepared in methods well known in pharmaceutical art; and 2) because of the expectation of successfully producing a topical pharmaceutical composition.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 571-272-0635. The examiner can normally be reached on Monday through Friday, from 8:30 AM until 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gina Yu Patent Examiner

> SREENI PADMANABHAN SUPERVISORY PACE AT EXAMINER